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DATA SHEET

P.i. Performance Improver Gasoline Additive

AMSOIL P.i.® is a potent, deep-cleaning gasoline performance improver featuring concentrated detergents that aggressively clean stubborn, power-robbing deposits from injectors, valves and combustion chambers. P.i. cleans your entire fuel system and restores up to 14% horsepower[1] in one tank of gasoline. The P.i. bottle is fully compatible with the capless fuel systems of modern vehicles for easy application.



- **Restores** up to 14% horsepower.[1]
- **Reduces** need for costly higher-octane fuel.
- **Reduces** noise from carbon rap and pre-ignition.
- **Controls** pre-ignition “knock.”
- **Improves** fuel economy.
- **Capless** compatible.

Maximum Deposit Clean-up

AMSOIL P.i. features aggressive additives that attack the most common forms of engine deposits and limit their effects.

Removes Fuel Injector Deposits

Most new engines feature gasoline direct-injection (GDI) to boost power and improve fuel economy. These injectors are located inside the intense heat and pressure environment of the combustion chamber, making them particularly vulnerable to deposits. Extreme pressure combined with incomplete fuel combustion can lead to dramatically increased soot (particulate matter) levels. Direct injection typically creates 30 to 40 times more soot than port fuel injectors (PFI). Even a minimal amount of injector fouling can lead to increased pollution and wear and decreased power and fuel economy.

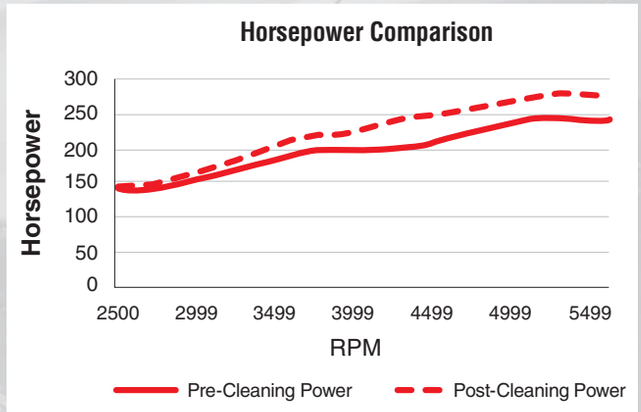
Injector deposits:

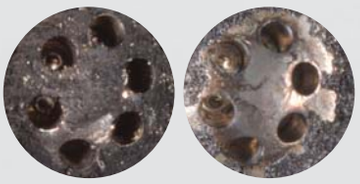
- Decrease efficiency, power and fuel economy.
- Increase exhaust emissions.
- Contribute to poor starting and rough idle.

P.i. **removes stubborn deposits** and keeps injectors functioning as they should. Testing shows P.i. restored GDI fuel injectors to a 100% flow rate after one tank of fuel.[2]

Restores Horsepower

We set out to once again demonstrate the superior performance of P.i. through third-party testing using a 2016 Chevrolet Silverado with 100,616 miles on the odometer. Prior to testing, the truck was run on a chassis dyno and horsepower was measured. The 5.3L GDI engine was then disassembled, photographed and reassembled. Following a single tank of of fuel treated with P.i. driving at highway speeds, the truck was again strapped to the dyno. It measured an incredible 14% improvement in horsepower. The engine was then disassembled once again to see the impact P.i. had on deposits. The images to the right demonstrate the powerful cleaning performance of P.i on injectors and cylinder heads to significantly restore power and efficiency.





Injector before P.i. treatment.

Injector after one P.i. treament.



Cylinder head before P.i. treatment.



Cylinder head after one P.i. treament.

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Fights Intake Valve Deposits

Valve deposits alter or restrict airflow patterns in the cylinder. They disrupt the balanced air/fuel ratio by momentarily absorbing and releasing fuel. The deposits can also cause valve sticking by getting in the way of the valve stem and guide.

Intake valve deposits:

- Decrease power and efficiency.
- Increase exhaust emissions.
- Lead to potential valve failure.

P.i. **helps keep valves clean** and moving freely.

Cleans Combustion Chamber Deposits

Combustion chamber deposits increase compression and absorb heat during combustion. Later, they release that heat during the intake cycle. In some engines, deposits can cause the piston to actually hit the cylinder head – a process known as “carbon rap.” The deposits can also flake off and become trapped between the valves and valve seat, resulting in compression loss.

Higher compression and stored heat increase the likelihood of pre-ignition “knock” when the fuel spontaneously combusts prior to spark ignition. This increases emissions and may cause engine damage. Most vehicles have sensors that adjust spark timing to prevent knock. Although audible “knock” is controlled, power is lost from retarded timing and engine efficiency suffers. Higher octane fuels can be used to help prevent the phenomenon. As a vehicle ages, more-expensive, higher-octane fuel is needed to keep it operating at peak performance.

Combustion chamber deposits:

- Increase the possibility of “carbon rap.”
- Contribute to compression loss, difficult starting and rough idling.
- Increase the possibility of pre-ignition “knock” or “pinging.”

P.i. **fights combustion chamber deposits,** which helps restore power, control knock, increase fuel economy and reduce the need for higher-octane fuels.

Capless-Compatible Packaging

Many new vehicles have replaced traditional fuel caps with capless systems. The threads on most bottles restrict them from opening the flap inside the fuel neck and also make removing the bottle difficult. The P.i. bottle is fully compatible with capless fuel systems.

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RECOMMENDATIONS

- Use in gasoline-powered cars and trucks.
- Treats up to 30 gallons. Add entire bottle to tank at fill-up.
- For best results, clean your fuel system with P.i. every 4,000 miles.
- For large gas tanks, treat with two bottles of P.i. Using more than two bottles per treatment is not recommended.
- Safe for use with catalytic converters, oxygen sensors, oxygenated gas and E85 fuel.
- Do not use with diesel or two-stroke engines.

AMSOIL PRODUCT WARRANTY

AMSOIL products are backed by a Limited Liability Warranty. For complete information visit AMSOIL.com/warranty.aspx.

HEALTH & SAFETY

This product is not expected to cause health concerns when used for the intended application and according to the recommendations in the Safety Data Sheet (SDS). An SDS is available at AMSOIL.com or upon request at 715-392-7101. **Keep Out of Reach of Children**.

AMSOIL The First in Synthetics®

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